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(54) Method and system for single sign-on user access to multiple web servers

(57) Methods and systems for single sign-on user access to multiple web servers are provided. A user is authenticated at a first web server (e.g., by user name and password). The first web server provides a web page to the user having a service selector (e.g., a hyperlink comprising the URL of a second web server offering the service indicated by the selector). When the user activates the service selector, the first web server constructs and transmits an encrypted authentication

token (e.g., a cookie) from the first web server to a second web server via the user client. The first and second web servers share a sub-domain. The authentication token comprises an expiration time and is digitally signed by the first web server and is authenticated at the second web server. Upon authentication, the second web server allows the user to conduct a session at the second web server.



EUROPEAN SEARCH REPORT

Application Number EP 00 20 3266

2-1	Citation of document with is	ndication, where appropriate,	Relevant	CLASSIFICATION OF THE
Category	of relevant pass		to claim	APPLICATION (Int.CI.7)
X	the Web" 'Online! June 1999 (1999-06) UNIVERSITY , FAIRFA Retrieved from the	X, VIRGINIA XP002190891 Internet: <url: .edu/dissert/diss-jean.</url: 	1-9, 15-23, 25-33, 39-47	H04L29/06 G06F1/00
,	Chapter 4, Figures A.1-A.10,		10-12, 24, 34-36,48	
,		(ABAIRD@WWW18.W3.ORG): ere is the URLDecoder?	10-12, 34-36	
	INTERNET NEWSGROUP, 29 April 1996 (1996 comp.lang.java Retrieved from the <url:http: groups.<br="">'retrieved on 2002- * the whole documen</url:http:>	-04-29), XP002191148 Internet: google.com/> 02-21!		TECHNICAL FIELDS
,	EP 0 913 789 A (SUN 6 May 1999 (1999-05 * claims 1,2 *		24,48	H04L
	Electronic Transact 1999 U.SKOREA CON SCIENCE, TECHNOLOGY LEADERSHIP, , 'Onl 12 - 14 August 199 UCLA, Los Angeles, Retrieved from the <url:http: citesee<br="">recookie.html> 'ret</url:http:>	FERENCE (UKC) ON , ENTREPRENEURSHIP, AND ine! 9, XP002191149 California Internet: r.nj.nec.com/park99secu rieved on 2002-02-21!	1-9	
	* the whole documen		15-33, 39-48	
	The present search report has t	peen drawn up for all claims		
***	Place of search	Date of completion of the search	<u> </u>	Examiner
	THE HAGUE	28 June 2002	Bert	tolissi, E
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anothent of the same category nological background	T : theory or principle E : earlier patent doc after the filing date D : document cited in L : document cited fo	underlying the ir ument, but publis the application or other reasons	nvention thed on, or

EPO FCRM 1503 03.82 (P04C01)



EUROPEAN SEARCH REPORT

Application Number EP 00 20 3266

	DOCUMENTS CONSIDI	dication, where appropriate,	Relevant	CLASSIFICATION OF THE
ategory	of relevant pass		to claim	APPLICATION (Int.CI.7)
,	WO 99 20060 A (DSC	TELECOM LP)	15-33,	
	22 April 1999 (1999	-04-22)	39-48	
	* page 34, line 1 -	page 35, line 5 *		
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				TECHNICAL FIELDS SEARCHED (Int.Cl.7)
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	THE PROBLEM IS ASSESSED.			
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	The present search report has b			
	Place of search THE HAGUE	Date of completion of the search 28 June 2002		tolissi, E
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	ATEGORY OF CITED DOCUMENTS	E : earlier patent	ciple underlying the in document, but publis	
Y : parti	cularly relevant if taken alone cularly relevant if combined with anoth	after the filling er D : document cit	ed in the application	
docu	ment of the same category nological background	L. : document cite	ed for other reasons	
O : non-	-written disclosure mediate document	& : member of the document	e same patent family	, corresponding

EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 20 3266

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-06-2002

	Patent docume cited in search re		Publication date		Patent famil member(s)			Publication date
ΕP	0913789	Α	06-05-1999	EP JP	0913789 11265411			06-05-1999 28-09-1999
WO	9920060	A	22-04-1999	US AU EP WO	6243451 9514398 1020088 9920060	A Al Al		05-06-2001 03-05-1999 19-07-2000 22-04-1999
		The control of the co	W.C.) .	alia alian pian lapid and ang ang a			-	

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